

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

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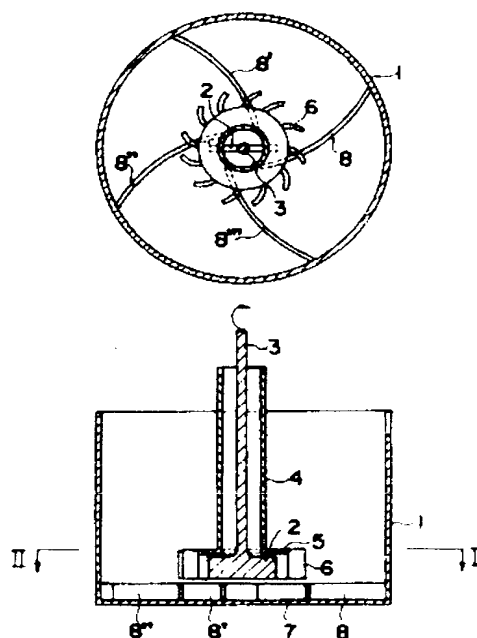
APPLICATION DATE : 26-01-79  
APPLICATION NUMBER : 54007909

APPLICANT : MITSUI MINING & SMELTING CO LTD;

INVENTOR : NAGAHAMA TATSUYA;

INT.CL. : B01J 10/00 // B01F 3/04

TITLE : GAS-LIQUID CONTACT REACTION  
APPARATUS



ABSTRACT : PURPOSE: To improve the contact reaction efficiency without using any special means by providing one or two or more sheets of suction guide blade plates extending radially to the inner side below a rotator provided with blades, to the reaction apparatus consisting of gas suction pipe, said rotator etc.

CONSTITUTION: To a known gas-contact reaction vessel 1 which revolves an impeller 2 by a shaft 3 and sucks gas into a stand pipe 4 are fixed and installed one or two or more sheets of suction guide plates 8~8" below the impeller 2. This results in considerably increased suction amount of gas into the stand pipe 4 and has the effect that gas bubbles become finer. In this way, a large amount of gas is introduced into the vessel and gas bubbles are fined without increasing the revolving speed of the impeller 2 and by keeping the increase in power quantity to an extremely small level, whereby the gas-liquid contact reaction efficiency may be improved.

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